

WO 97/30158

BBLON ET AL (703) 413-3000

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FIGURE 1A

Bac 19 E F N I S Q H Q C V K K Q C P E N
GGA TTT AAC ATC TCG CAG CAC CAA TGC GTG AAA AAA CCA TGT CCC GAG AAC
PF 19 AAC ATT TCA CAA CAC CAA TGC GTA AAA AAA CCA TGT CCA GAA AAT

Bac 19 S G C F R H L D E R E E C K C L L
TGT GGC TGT TTC AGA CAC TTG GAC GAG AGA GAG GAG TGT AAA TGT CTG CTG
PF 19 TGT GGA TGT TTC AGA CAT TTA GAT GAA AGA GAA GAA TGT AAA TGT TTA TTA

Bac 19 N Y K Q E G D K C V E N P N P T C
AAC TAC AAA CAG GAG GGC GAC AAG TGC GTG GAG AAC CCC AAC CCG ACC TGT
PF 19 AAT TAC AAA CAA GAA GGT GAT AAA TGT GTT GAA AAT DCA AAT CCT ACT TGT

Bac 19 N E N N G G C D A D A K C T E E D
AAC GAG AAC AAC GGC GGC TGT GAC GCA GAC GCC AAA TGC ACC GAG GAG GAC
PF 19 AAC GAA AAT AAT GGT GGA TGT GAT GCA GAT GCC AAA TGT ACC GAA GAA GAT

Bac 19 S G S N G K K I T C E C T K P D S
TCG GGC AGC AAC GGC AAG AAA ATC ACC TGT GAG TGT ACC AAA CCC GAC TCG
PF 19 TCA GGT AGC AAC GGA AAG AAA ATC ACA TGT GAA TGT ACT AAA CCT GAT TGT

Bac 19 Y P L F D G I F C S . .
TAC CCG CTG TTC GAC GGC ATC TTC TGC AGC TAA TAA
PF 19 TAT CCA CTT TTC GAT GGT ATT TTC TGC AGT

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FIGURE 1B

Site Eco RI

	E	F	N	I	S	Q	H	Q	C	V	K	K	Q	C	P	E	N
Bac 19	GAA	TTT	AAC	ATC	TCG	CAG	CAC	CAA	TGC	GTG	AAA	AAA	CAA	TGT	CCC	GAG	AAC
PF 19																	
	AAC	ATT	TCA	CAA	CAC	CAA	TGC	GTA	AAA	AAA	CAA	TGT	CCA	GAA	AAT		
	S	G	C	F	R	H	L	D	E	R	E	E	C	K	C	L	L
Bac 19	TCT	GGC	TGT	TTC	AGA	CAC	TTG	GAC	GAG	AGA	GAG	GAG	TGT	AAA	TGT	CTG	CTG
PF 19																	
	TCT	GGA	TGT	TTC	AGA	CAT	TTA	GAT	GAA	AGA	GAA	GAA	TGT	AAA	TGT	TTA	TTA
	N	Y	K	Q	E	G	D	K	C	V	E	N	P	N	P	T	C
Bac 19	AAC	TAC	AAA	CAG	GAG	GGC	GAC	AAG	TGC	GTG	GAG	AAC	CCC	AAC	CTG	ACC	TGT
PF 19																	
	AAT	TAC	AAA	CAA	GAA	CGT	GAT	AAA	TGT	GTT	GAA	AAT	CCA	AAT	CCT	ACT	TGT
	N	E	N	N	G	G	C	D	A	D	A	K	C	T	E	E	D
Bac 19	AAC	GAG	AAC	AAC	GGC	GGC	TGT	GAC	GCA	GAC	GCC	AAA	TGC	ACC	GAG	GAG	GAC
PF 19																	
	AAC	GAA	AAT	AAT	GGT	GGA	TGT	GAT	GCA	GAT	GCC	AAA	TGT	ACC	GAA	GAA	GAT
	S	G	S	N	G	K	K	I	T	C	E	C	T	K	P	D	S
Bac 19	TCC	GGC	AGC	AAC	GGC	AAG	AAA	ATC	ACG	TGT	GAG	TGT	ACC	AAA	CCC	GAC	TGG
PF 19																	
	TCA	GCT	AGC	AAC	GGA	AAG	AAA	ATC	ACA	TGT	GAA	TGT	ACT	AAA	CCT	GAT	TCT
	Y	P	L	F	D	G	I	F	C	S	S	S	N	F	L	G	I
Bac 19	TAC	CCG	CTG	TTC	GAC	GGC	ATC	TTC	TGC	AGC	TCC	TCT	AAC	TTC	TTG	GGC	ATC
PF 19																	
	TAT	CCA	CTT	TTC	GAT	GGT	ATT	TTC	TGC	AGT	TCC	TCT	AAC	TTC	TTA	GGA	ATA
	S	F	L	L	I	L	M	L	I	L	Y	S	F	I	*	*	
Bac 19	TCC	TTC	TTG	TTG	ATC	CTC	ATG	TTG	ATC	TTG	TAC	AGC	TTC	ATT	TAA	TAA	
PF 19																	
	TCA	TTC	TTA	TTA	ATA	CTC	ATG	TTA	ATA	TTA	TAC	AGT	TTC	ATT			

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ATG M	AAG K	GCG A	CTA L	CTC L	TTT F	TTG L	TTC F	TCT S	TTC F	ATT I	TTT F	TTC F	GTT V	ACC T	AAA K	TGT C
CAA Q	TGT C	GAA E	ACA T	GAA E	AGT S	TAT Y	AAG K	CAG Q	CTT L	GTA V	GCC A	AAC N	GTG V	GAC D	GAA E	TTC F
AAC N	ATC I	TCG S	CAG Q	CAC H	CAA Q	TGC C	GTG V	AAA K	AAA K	CAA Q	TGT C	CCC P	GAG E	AAC N	TCT S	GGC G
TGT C	TTC F	AGA R	CAC H	TTG L	GAC D	GAG E	AGA R	GAG E	GAG E	TGT C	AAA K	TGT C	CTG L	CTG L	AAC N	TAC Y
AAA K	CAG Q	GAG E	GCG G	GAC D	AAG K	TGC C	GTG V	GAG E	AAC N	CCC P	AAC N	CCG P	ACC T	TGT C	AAC N	GAG E
AAC N	AAC N	GCG G	GCG G	TGT C	GAC D	GCA A	GAC D	GCC A	AAA K	TGC C	ACC T	GAG E	GAG E	GAC D	TCG S	GCG G
AGC S	AAC N	GCG G	AAG K	AAA K	ATC I	ACG T	TGT C	GAG E	TGT C	ACC T	AAA K	CCC P	GAC D	TCG S	TAC Y	CCG P
CTG L	TTC F	GAC D	GCG G	ATC I	TTC F	TGC C	AGC S	TAA *	TAA *							

FIGURE 1C

[illegible]

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GAA	ACA	GAA	AGT	TAT	AAG	CAG	CTT	GTA	GCC	AAC	GTG	GAC	GAA	TTC
E	T	E	S	Y	K	Q	L	V	A	N	V	D	E	F
AAC	ATC	TCG	CAG	CAC	CAA	TGC	GTG	AAA	AAA	CAA	TGT	CCC	GAG	AAC
N	I	S	Q	H	Q	C	V	K	K	Q	C	P	E	N
TGT	TTC	AGA	CAC	TTG	GAC	GAG	AGA	GAG	GAG	TGT	AAA	TGT	CTG	CTG
C	F	R	H	L	D	E	R	E	E	C	K	C	L	L
AAA	CAG	GAG	GGC	GAC	AAG	TGC	GTG	GAG	AAC	CCC	AAC	CCG	ACC	TGT
K	Q	E	G	D	K	C	V	E	N	P	N	P	T	C
AAC	AAC	GGC	GGC	TGT	GAC	GCA	GAC	GCC	AAA	TGC	ACC	GAG	GAG	GAC
N	N	G	G	C	D	A	D	A	K	C	T	E	E	D
AGC	AAC	GGC	AAG	AAA	ATC	ACG	TGT	GAG	TGT	ACC	AAA	CCC	GAC	TCG
S	N	G	K	K	I	T	C	E	C	T	K	P	D	S
CTG	TTC	GAC	GGC	ATC	TTC	TGC	AGC	TAA	TAA					
L	F	D	G	I	F	C	S	*	*					

FIGURE 1D

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R NR
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G12



FIGURE 2

OLON ET AL (703) 413-3000

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MSP1p19S

V

C

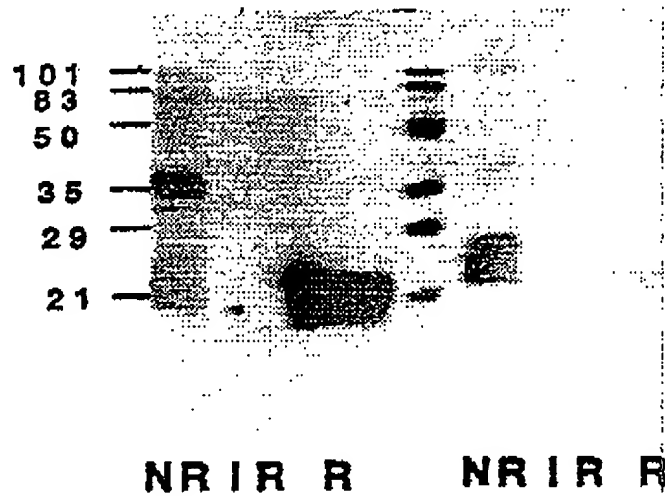


FIGURE 2B

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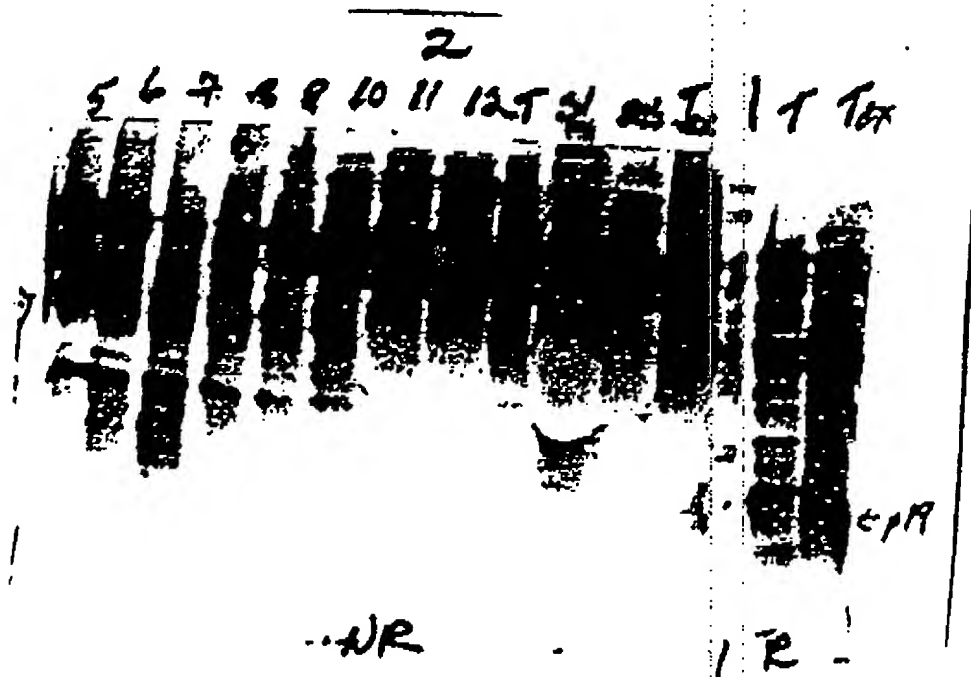


FIGURE 3

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660720 70000000

ELISA INHIBITION BY P. VIVAX MSP-1 P42 AND P19 ANTIGENS

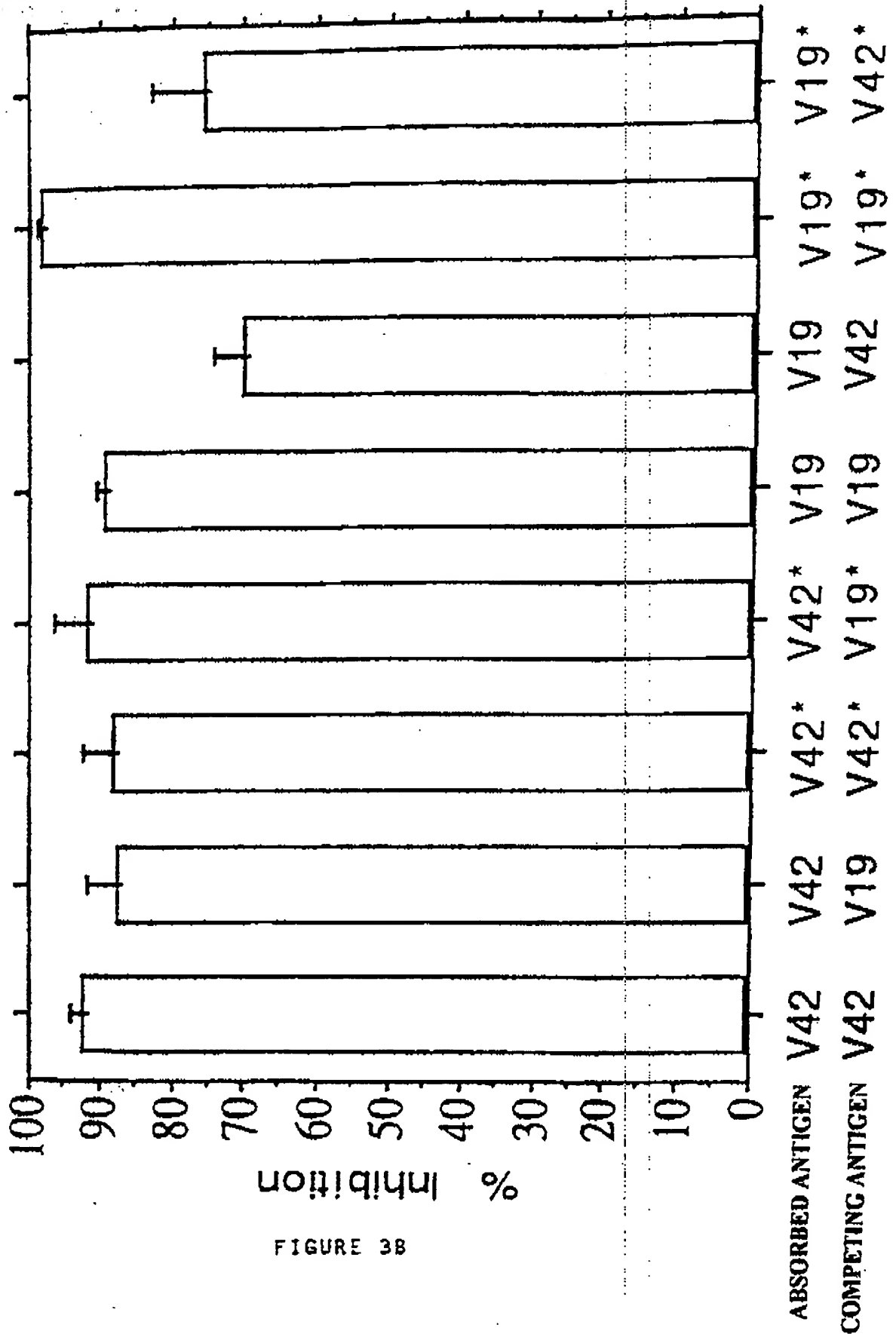


FIGURE 38

4

42

RECIPE

REC'D 10/11/97

19

REGIONS

471

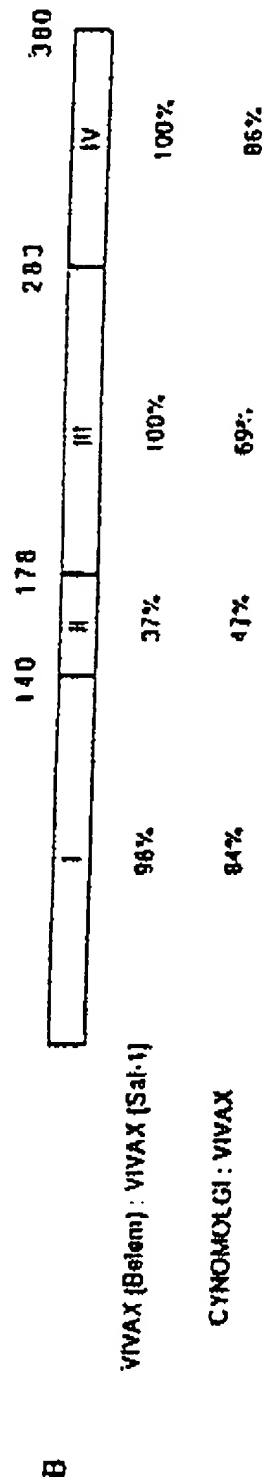
REGION IV

1981

cyanoide
 naru(Bent)
 naru(Sa: 1)
 Consensus

IVCXCIKEGS EPLFEGVFC
 IVCXCIKEGS EPLFEGVFC
 IVCXCIKEGS EPLFEGVFC
 IVCXCIKEGS EPLFEGVFC

FIGURE 4



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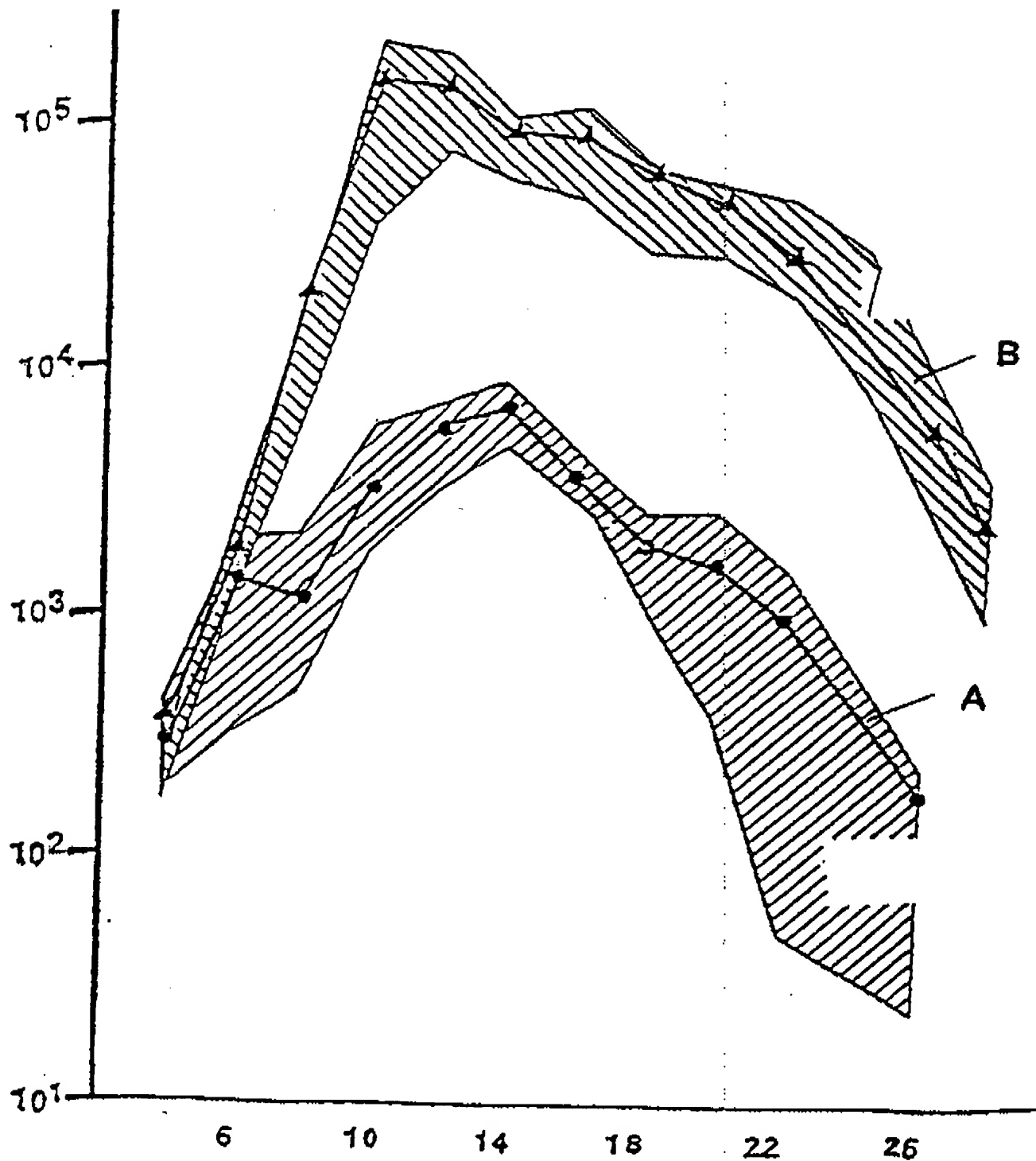


FIGURE 5

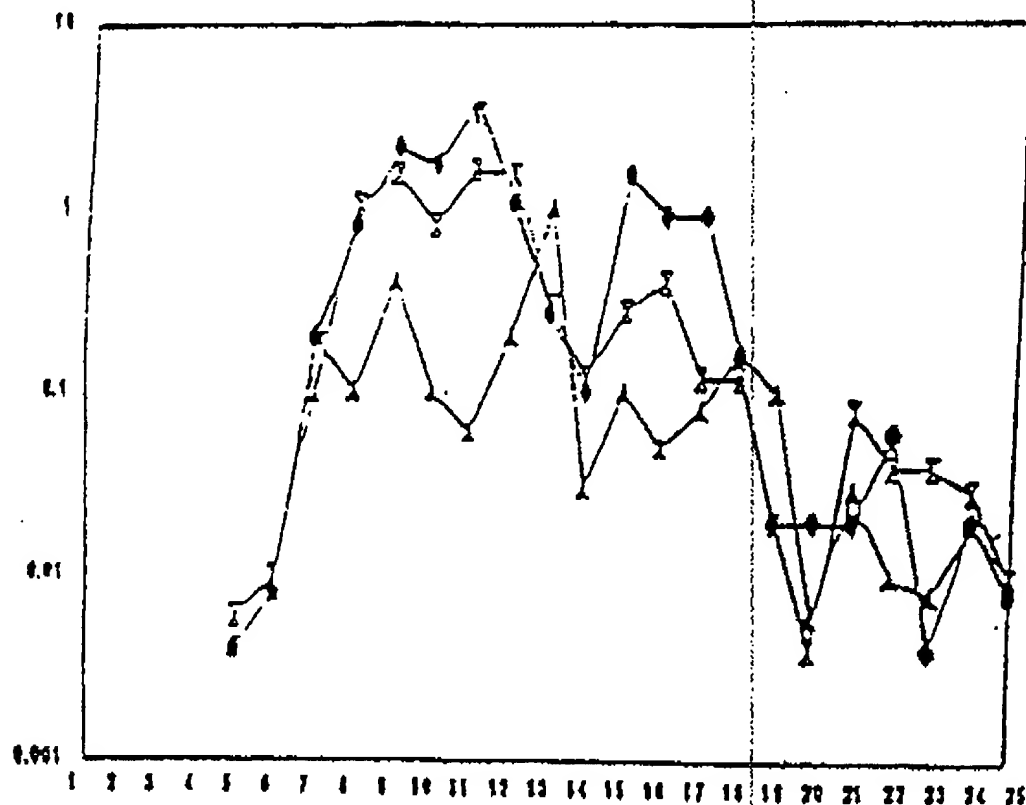


FIGURE 6A

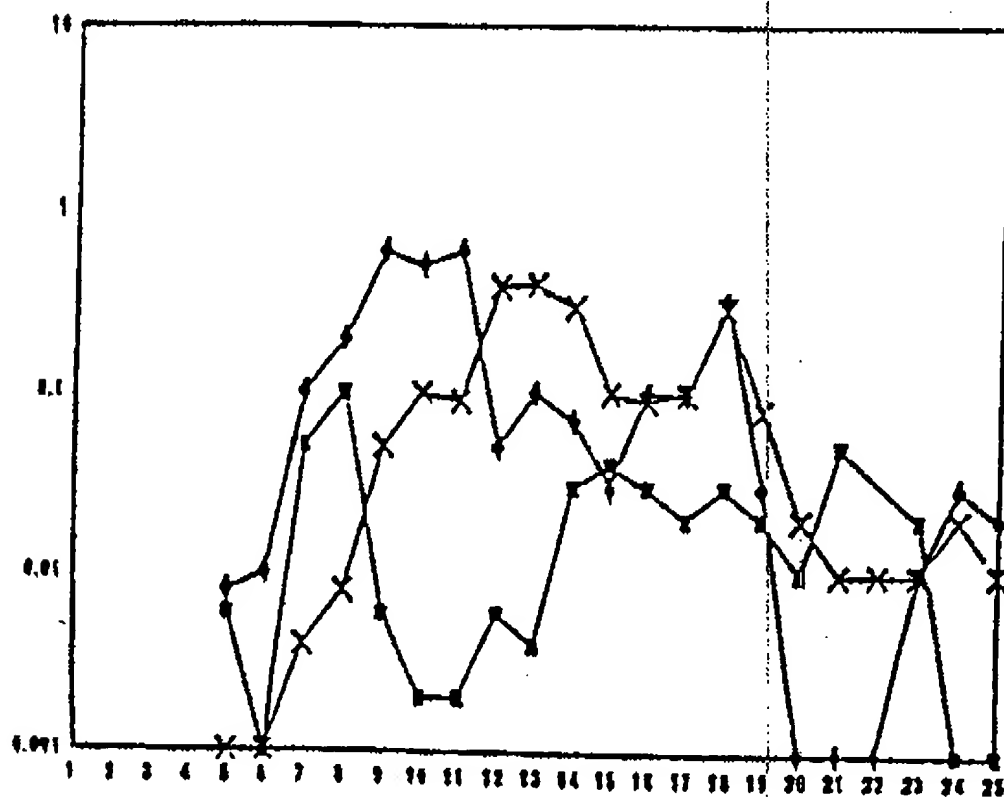


FIGURE 6B

663760 705413

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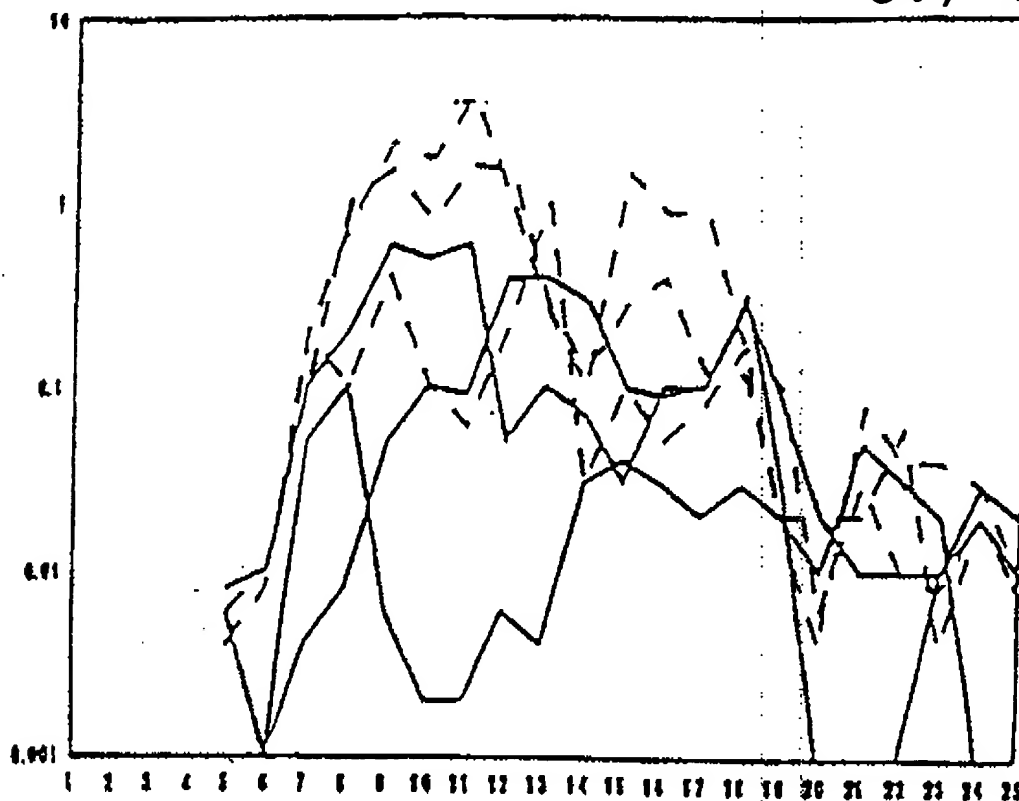


FIGURE 6C

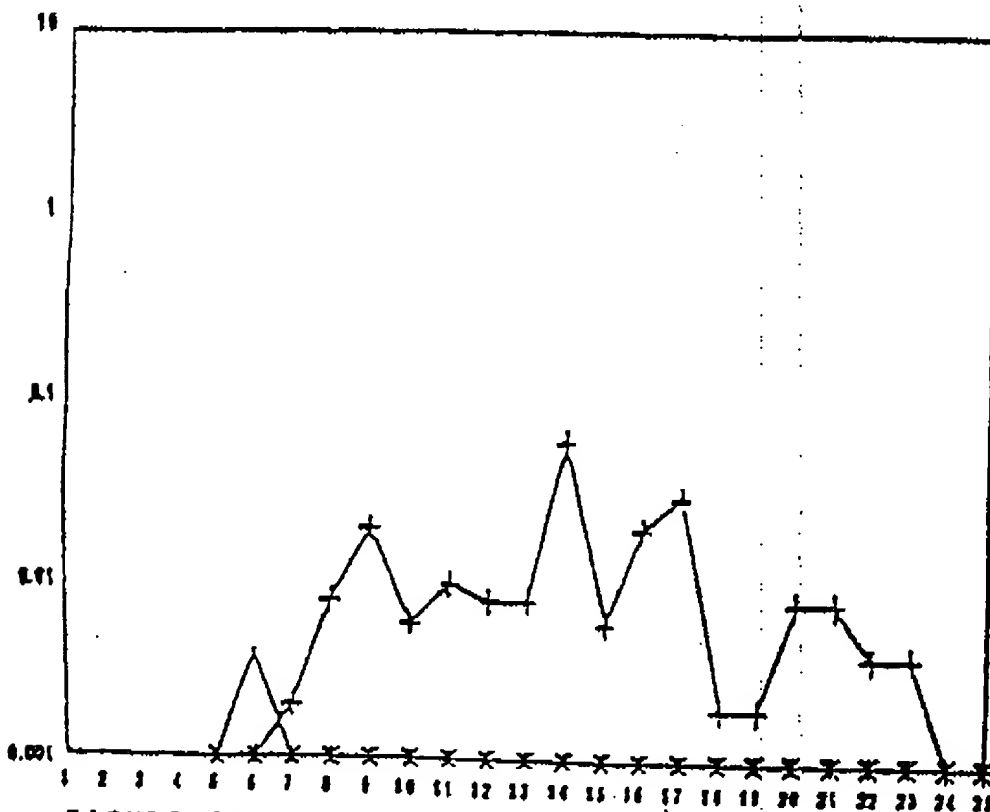


FIGURE 6D

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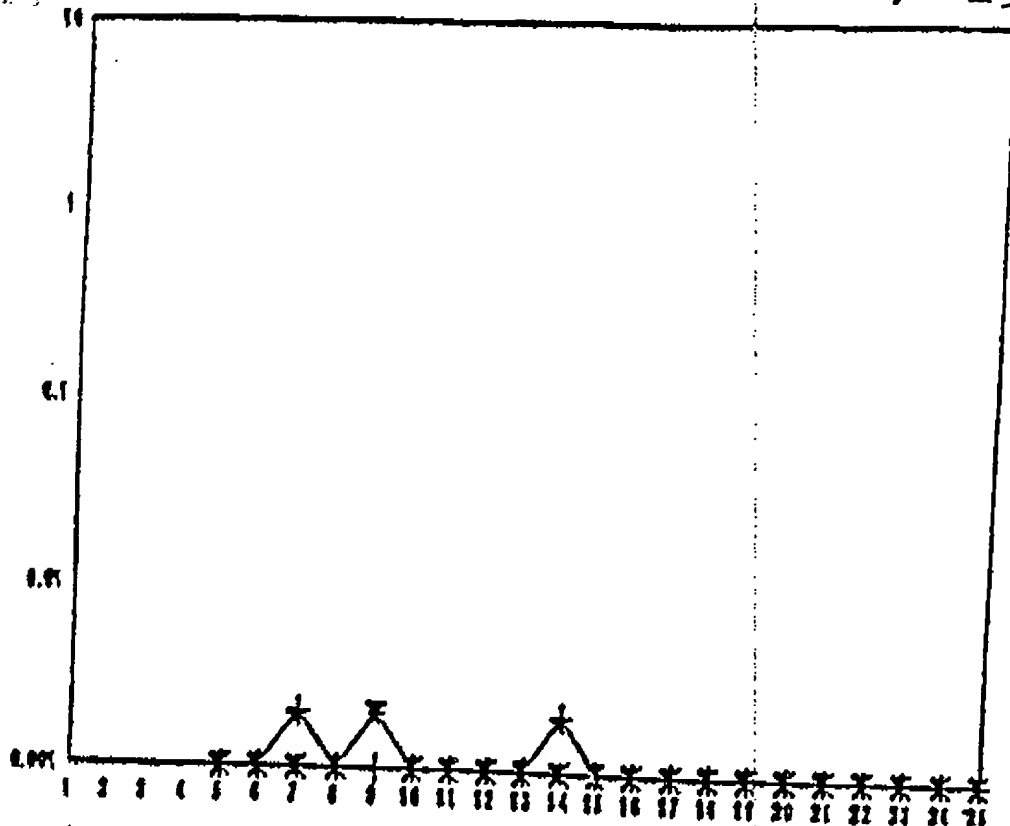


FIGURE 6E

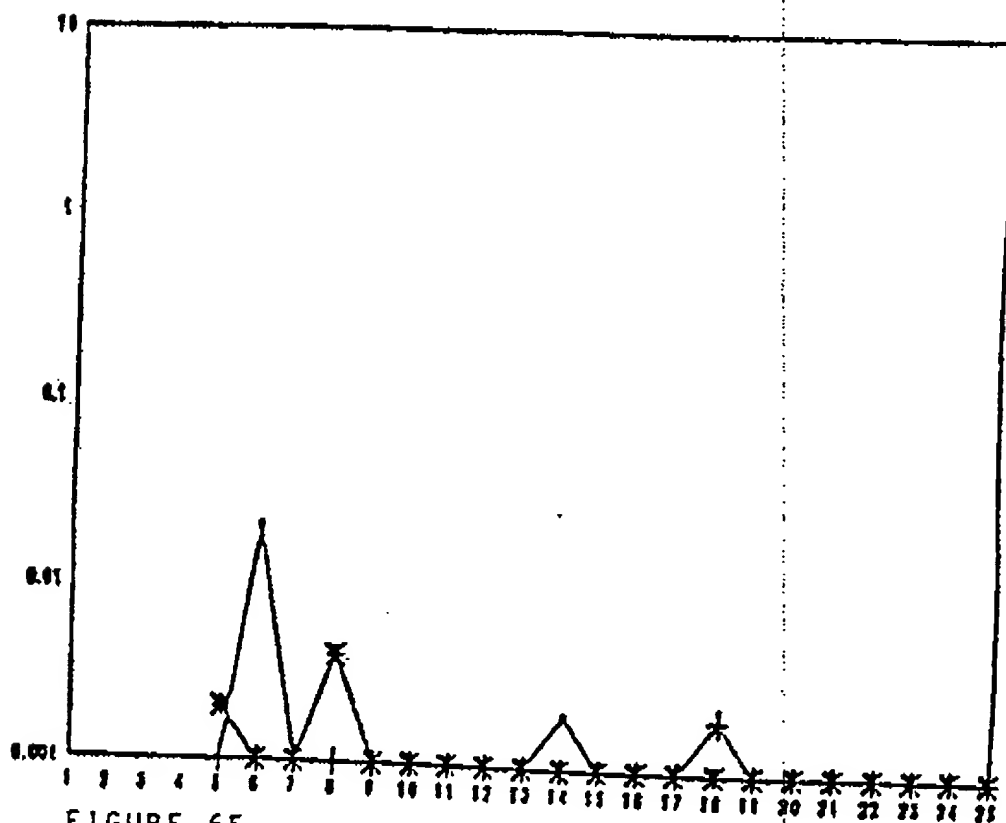


FIGURE 6F

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FIGURE 6G

Vaccination test: recombinant MSP-1 (p42 and p19) from *Plasmodium cynomolgi* in the *Macaca sinica* loque macaque

Year	Days post-infection																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Days post-infection	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Vaccination	T434	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p42	T435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T428	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vaccination	T429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p19	T426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vaccination	T430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
p42+p19	T431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T433	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Controls	T425	0.01	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Physiological water	T436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FCA/FIA	T438	0.01	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Controls	T437	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Non vaccinated	T440	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	T441	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

-- = Absence of parasites in 400 microscopic fields

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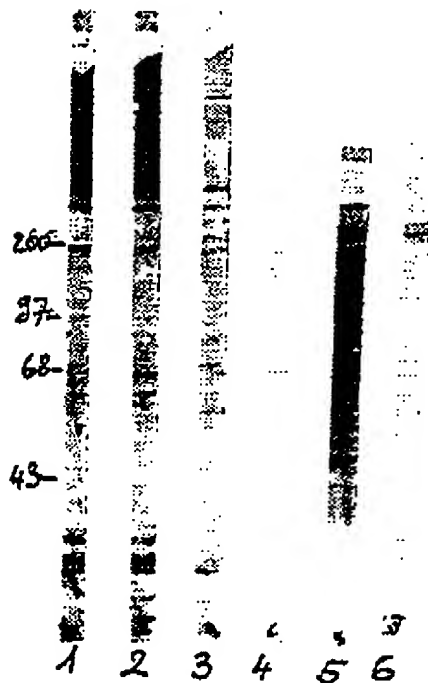
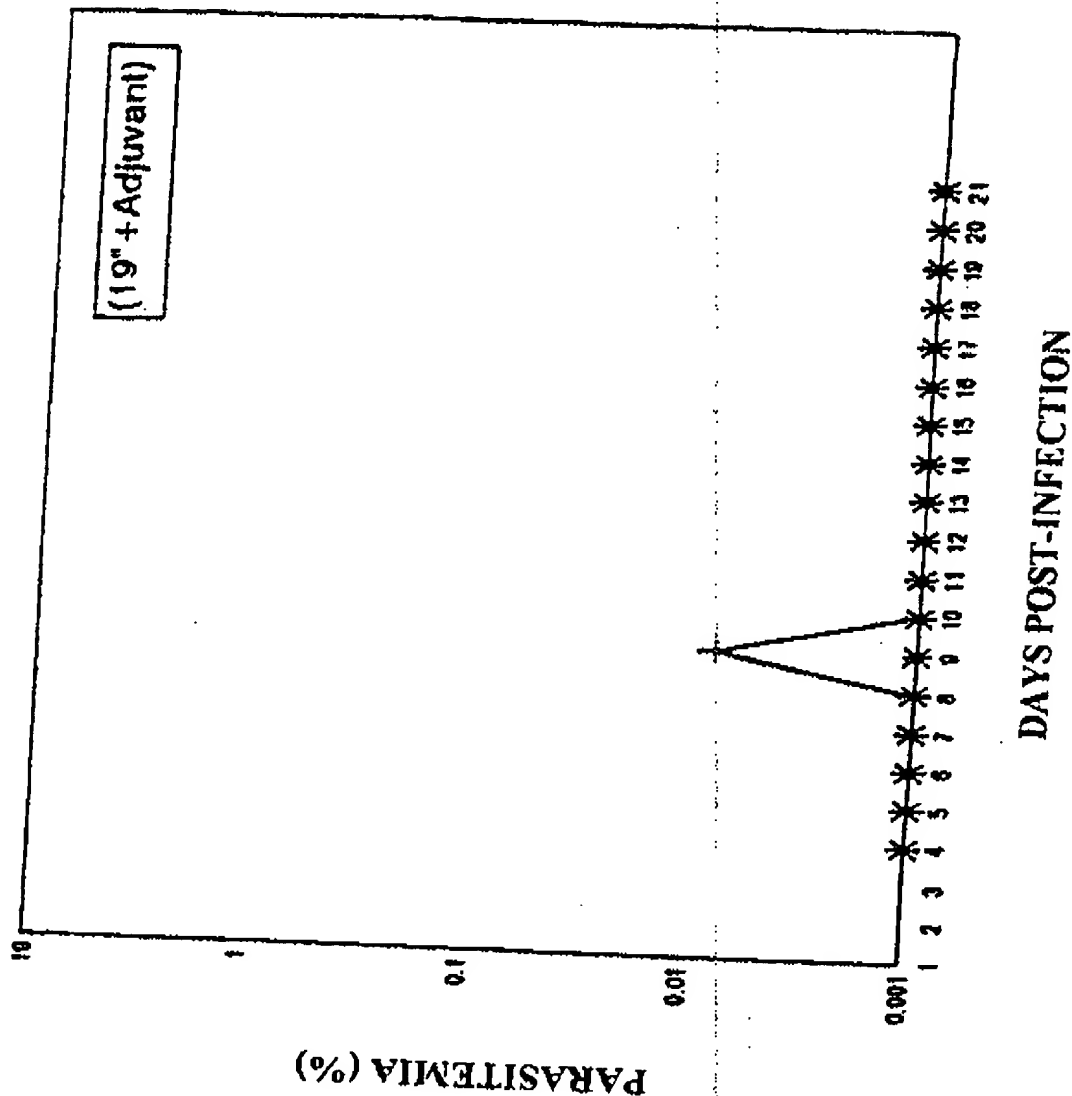


FIGURE 7

Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the *Macaca sinica* toque
macaque; second challenge infection

FIGURE 8A



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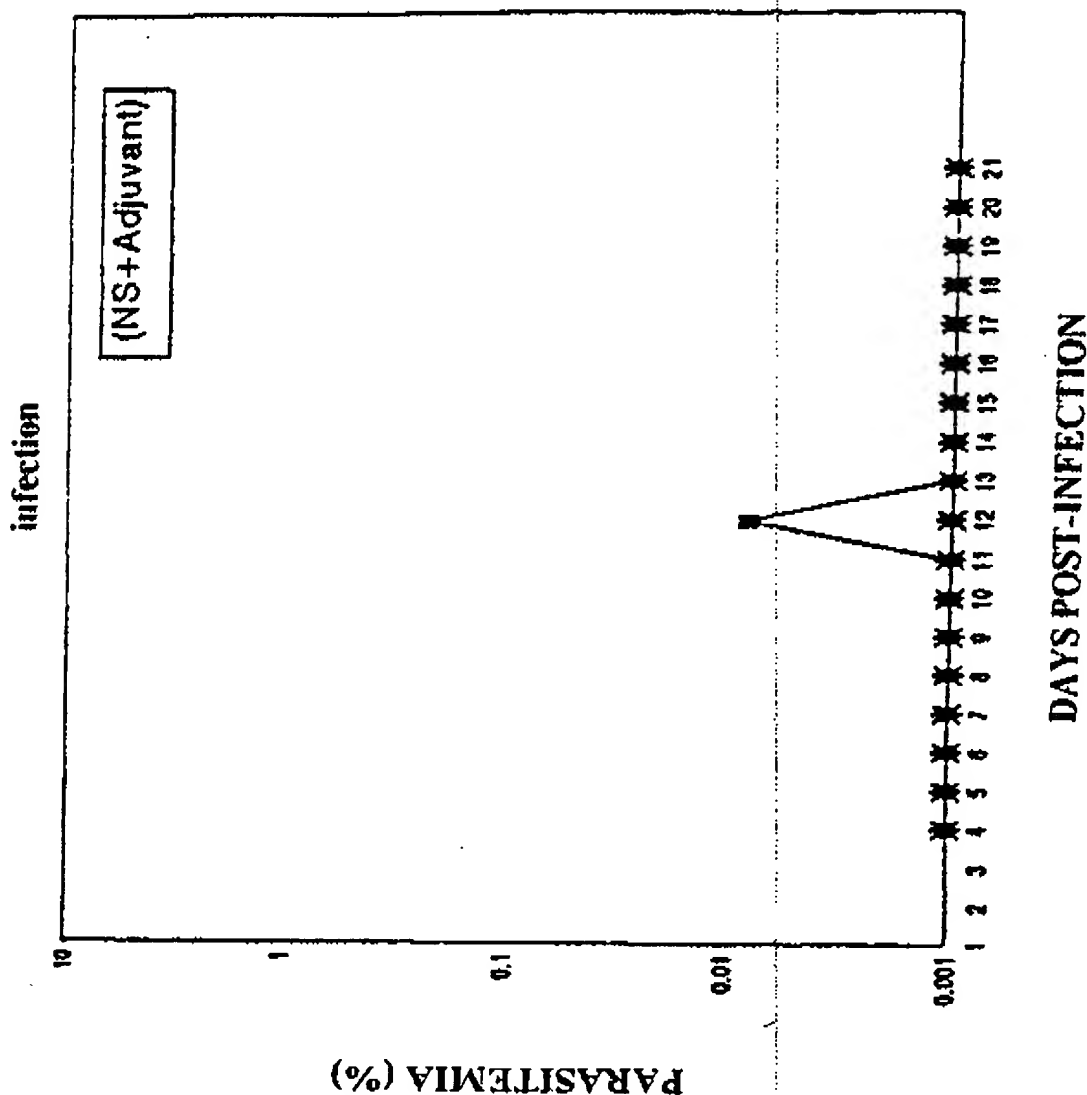
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FIGURE 8B

Vaccination test: recombinant MSP-1 (p19) of *Plasmodium*

cynomolgi in the *Macaca sinica* toque macaque; second challenge



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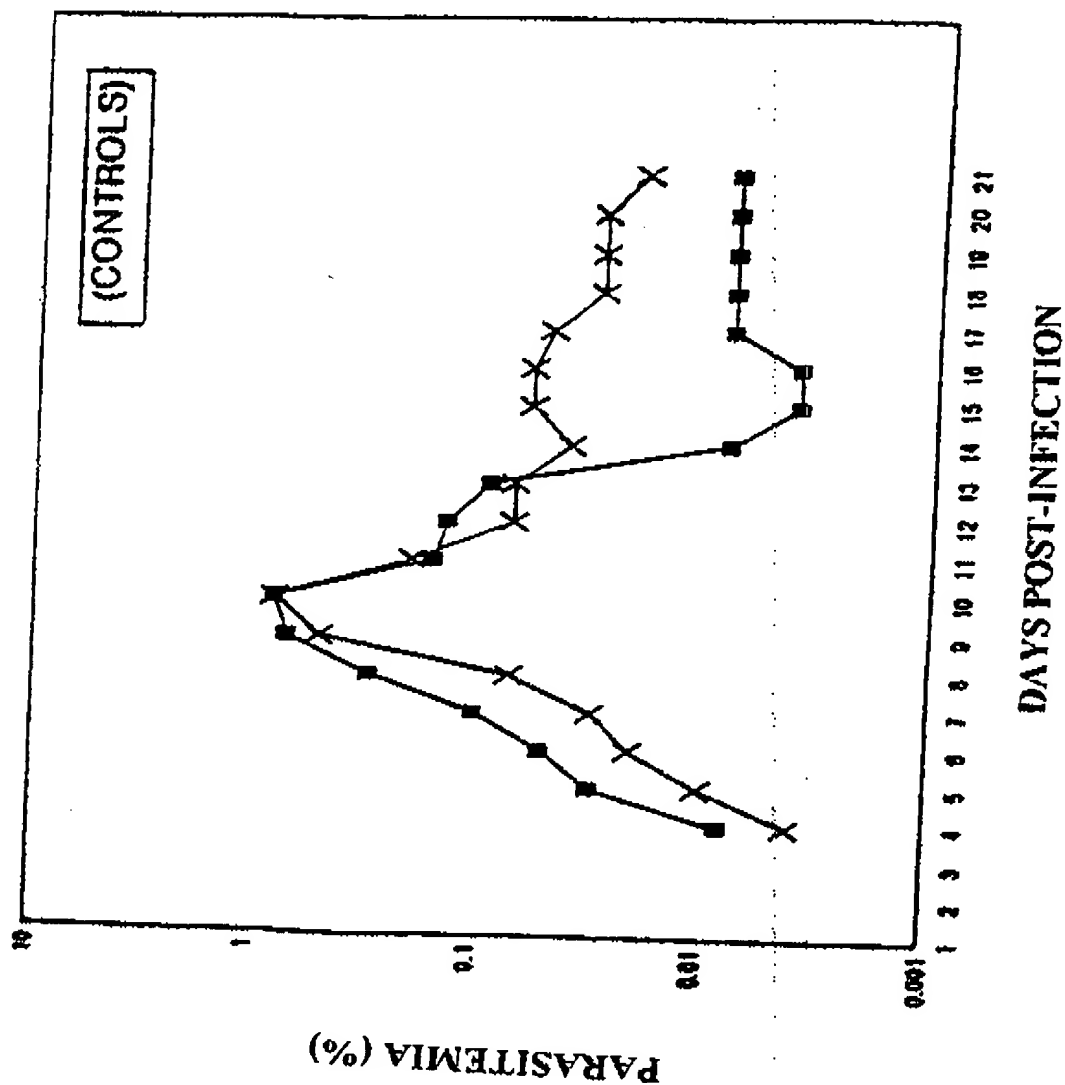
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FIGURE 8C

660760-TECH-2760
Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the *Macaca sinica* toque macaque; second challenge infection



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Vaccination test: recombinant MSP-1 (p19) of *Plasmodium cynomolgi* in the*Macaca sinica* toque macaque: second challenge infection

Year	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Month	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Days post-infection	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Days after challenge	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Vaccination p19																		
T 426	-	-	-	-	-	.008	-	-	-	-	-	-	-	-	-	-	-	-
T 427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T 429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Controls Physiological water FCA/FLA																		
T 436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T 425	-	-	-	-	-	-	-	-	.008	-	-	-	-	-	-	-	-	-
T 438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Controls Non vaccinated																		
T 448	.008	.03	.05	0.1	0.3	0.7	0.8	.16	.14	.09	.008	.004	.004	.008	.008	.008	.008	.008
T 449	.004	.01	.02	.03	0.07	0.5	0.8	0.2	.07	.07	.04	.06	.06	.05	.03	.03	.03	.02

- = Absence of parasites in 400 microscopic fields

FIGURE 8D

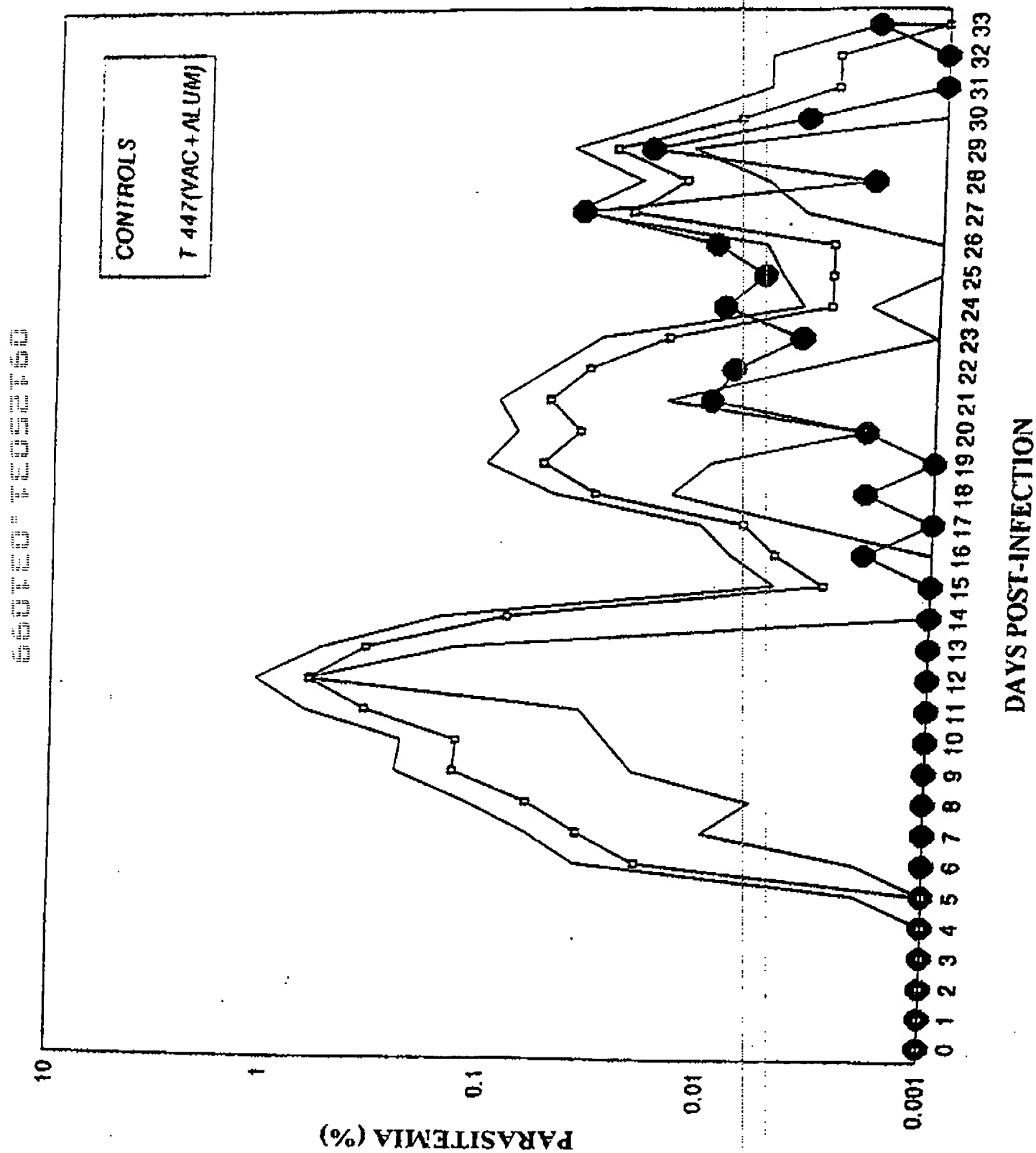
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FIGURE 9A



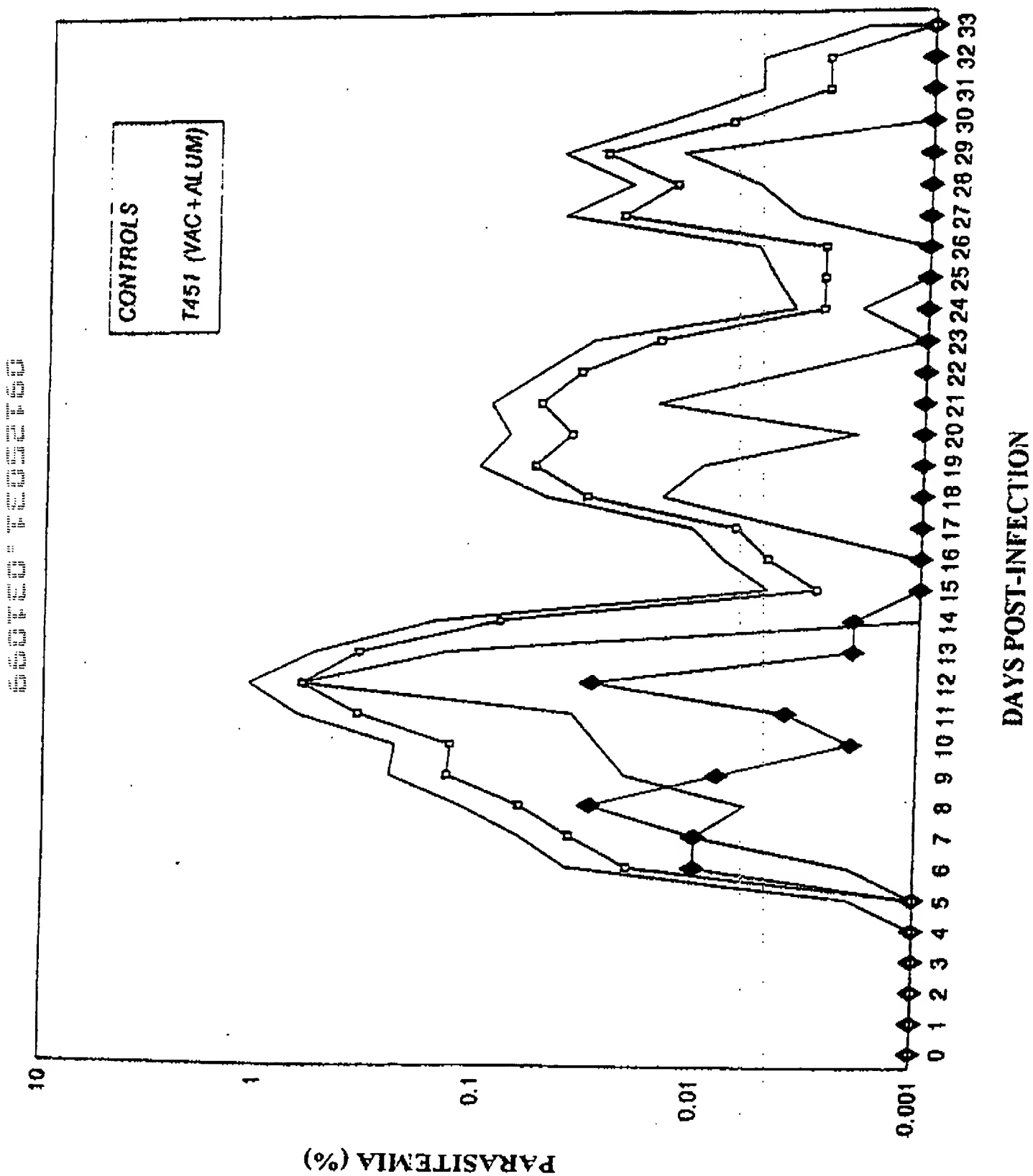
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FIGURE 9B



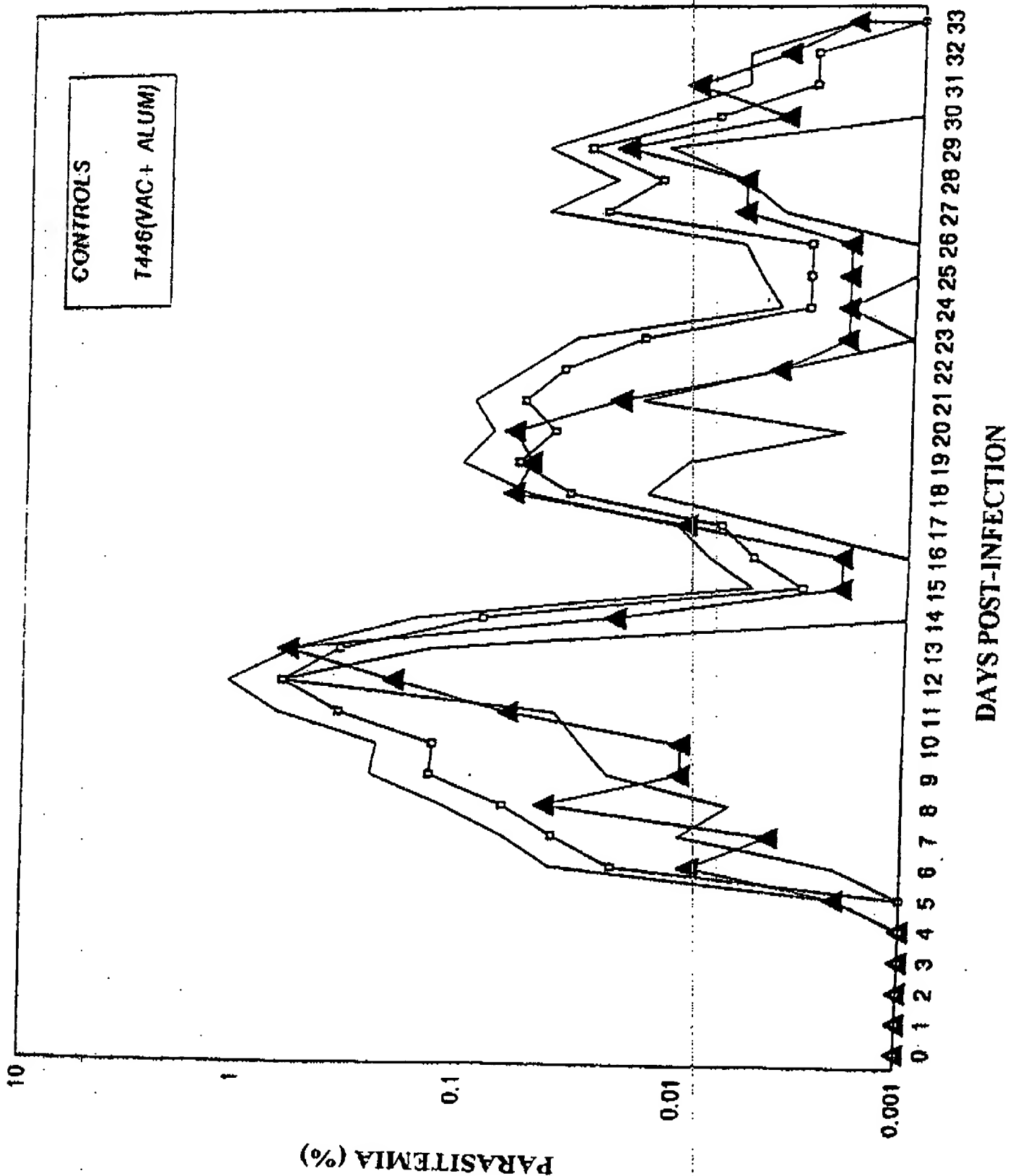
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FIGURE 9C



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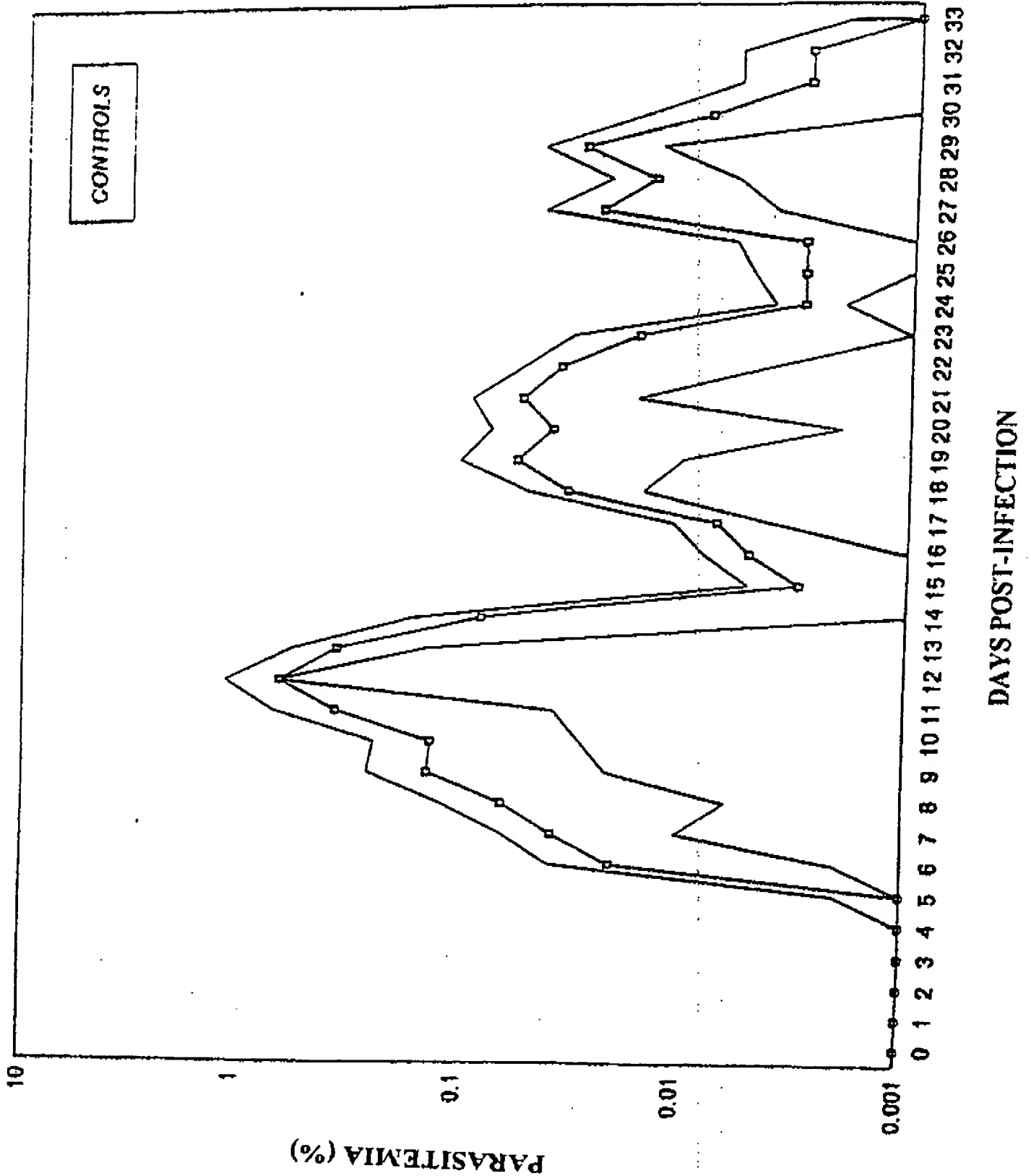
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FIGURE 9D



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Vaccination test: *P. cynomolgus* macaque with MSP-1 p19 of *P.**cynomolgus* in alum

Year	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	9
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FIGURE 9E

— negative for parasites in 400 microscopic fields

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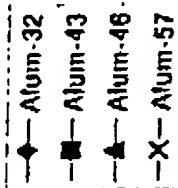
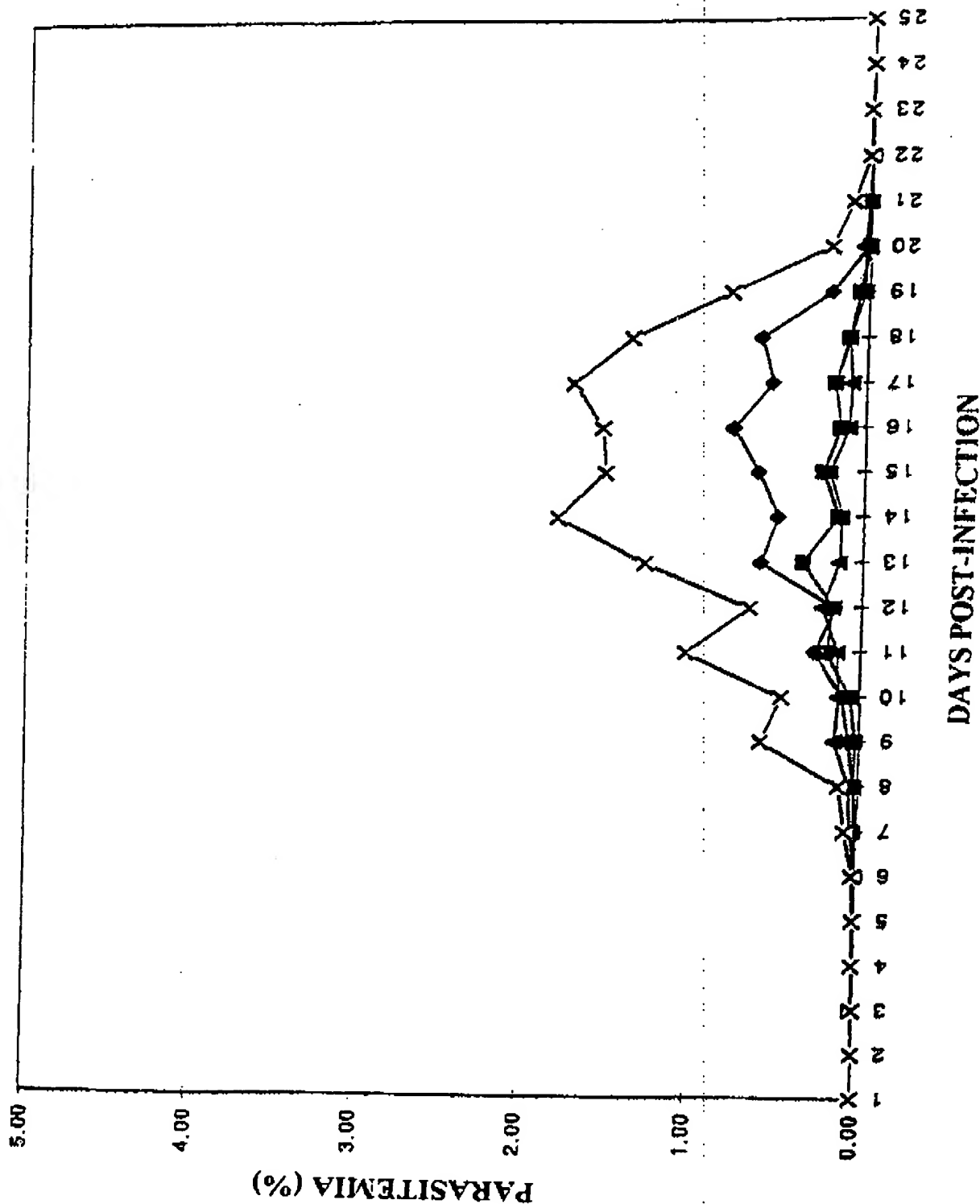


FIGURE 10A

**PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUREUS SQUIRREL MONKEY
MSP-1 p19 VACCINATION WITH ALUM**



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PCT/FR97/00290

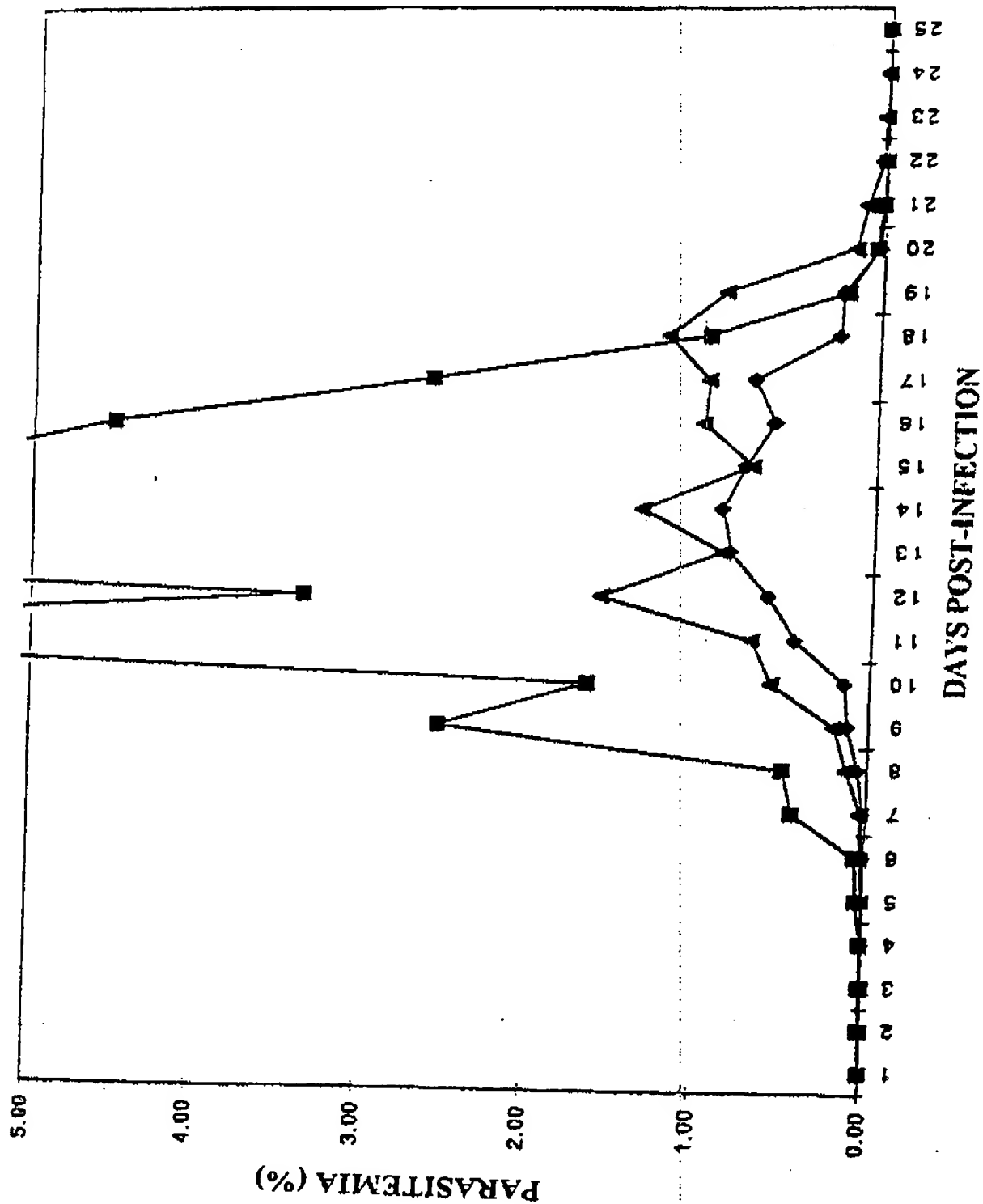
09/125031

◆ Freund-48
■ Freund-66
▲ Freund-69

FIGURE 10B

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUEREUS SQUIRREL MONKEY

MSP-1 p19 VACCINATION WITH FREUNDS



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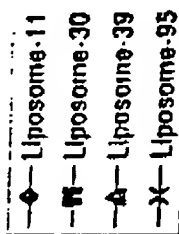
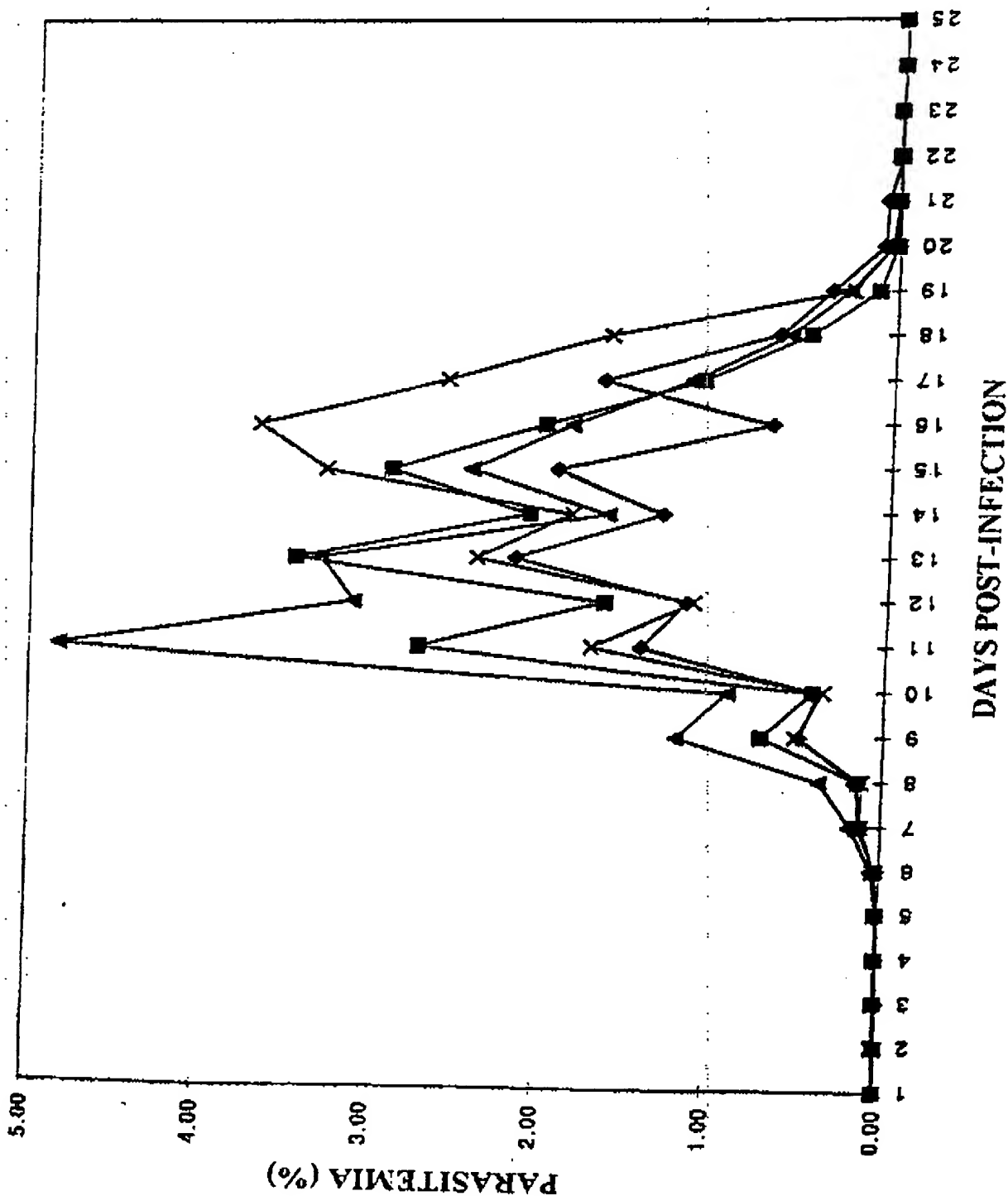


FIGURE 10C

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIENCE SQUIRREL MONKEY

MSP-1 p19 VACCINATION WITH LIPOSOMES



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ET AL (703) 413-3000

DOCKET 0139014 SHEET 29 OF 32

PCT/FR97/00290

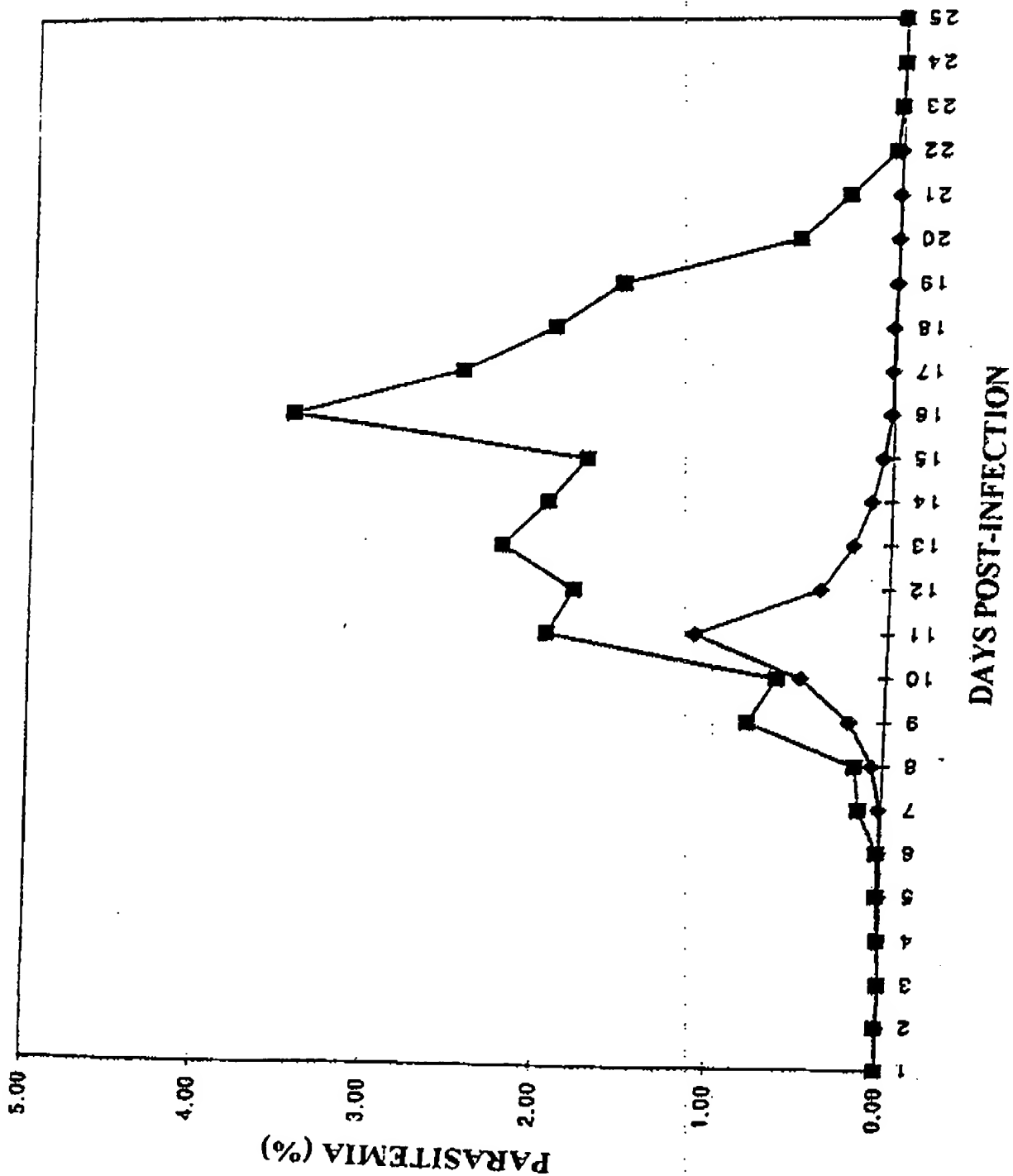
29/32

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FIGURE 100

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUREUS SQUIRREL MONKEY

ALUM CONTROL

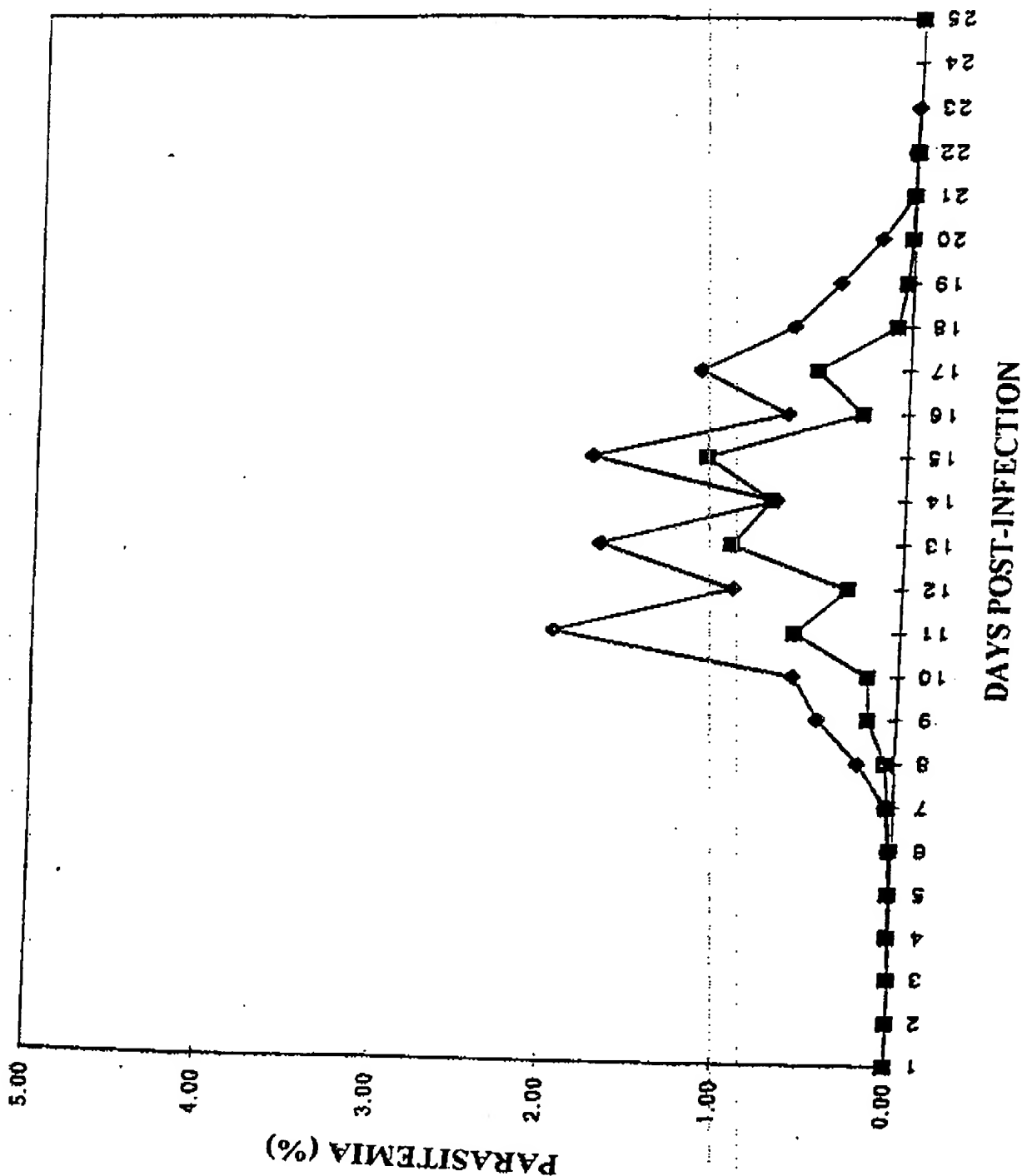


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FIGURE 10E

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAMIRI
SCIUEREUS SQUIRREL MONKEY

FREUNDS CONTROL



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SHEET 31 OF 32

PCT/FR97/00290

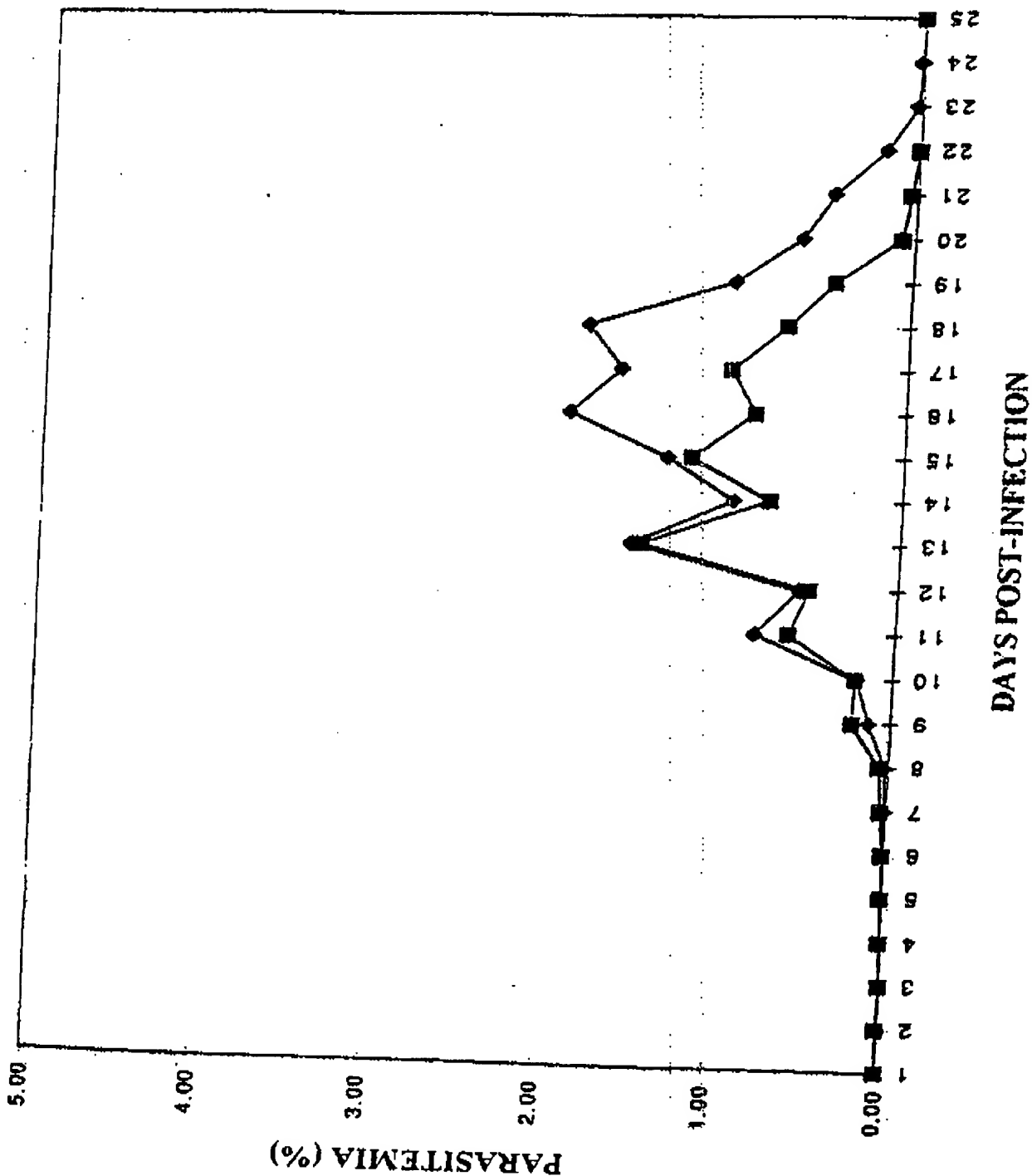
31/32

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Lip Control-37
 Lip Control-73

FIGURE 10F

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAMIRI
 SCIUREUS SQUIRREL MONKEY
 LIPOSOME CONTROL



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DOCKET # 81390XPU SHEET 32 OF 32

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FIGURE 106

PLASMODIUM FALCIPARUM VACCINATION TEST IN SAIMIRI
SCIUREUS SQUIRREL MONKEY
PHYSIOLOGICAL WATER CONTROL

